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1 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 Programming languages for distributed computing systems

Henri E. Bal, Jennifer G. Steiner, Andrew S. Tanenbaum

September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Full text available: pdf(6.50 MB) Additional Information: full citation, abstract, references, citings, index terms, review

When distributed systems first appeared, they were programmed in traditional sequential languages, usually with the addition of a few library procedures for sending and receiving messages. As distributed applications became more commonplace and more sophisticated, this ad hoc approach became less satisfactory. Researchers all over the world began designing new programming languages specifically for implementing distributed applications. These languages and their history, their underlying pr ...

3 Compositional verification of concurrent systems using Petri-net-based condensation rules

Eric Y. T. Juan, Jeffrey J. P. Tsai, Tadao Murata

September 1998 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 20 Issue 5

Full text available: pdf(578.81 KB) Additional Information: full citation, abstract, references, citings, index terms

The state-explosion problem of formal verification has obstructed its application to large-scale software systems. In this article, we introduce a set of new condensation theories: IOT-failure equivalence, IOT-state equivalence, and firing-dependence theory to cope with

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1 Reliable object storage to support atomic actions
Brian M. Oki, Barbara H. Liskov, Robert W. Scheifler
December 1985 **ACM SIGOPS Operating Systems Review , Proceedings of the tenth ACM symposium on Operating systems principles**, Volume 19 Issue 5
Full text available: pdf(939.13 KB) Additional Information: full citation, references, citings, index terms

2 Principles of transaction-oriented database recovery
Theo Haerder, Andreas Reuter
December 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 4
Full text available: pdf(2.48 MB) Additional Information: full citation, references, citings, index terms, review

3 Implementation of resilient, atomic data types
William Weihl, Barbara Liskov
April 1985 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 7 Issue 2
Full text available: pdf(2.19 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A major issue in many applications is how to preserve the consistency of data in the presence of concurrency and hardware failures. We suggest addressing this problem by implementing applications in terms of abstract data types with two properties: Their objects are atomic (they provide serializability and recoverability for activities using them) and resilient (they survive hardware failures with acceptably high probability). We define what it means for abstract data types to be atomic and ...

4 A model for concurrency in nested transactions systems
Catriel Beeri, Philip A. Bernstein, Nathan Goodman
April 1989 **Journal of the ACM (JACM)**, Volume 36 Issue 2
Full text available: pdf(3.73 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Today's standard model for database concurrency control, called serializability theory, represents executions of transactions as partial orders of operations. The theory tells when an execution is serializable, that is, when the set of operations of a transaction execute

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1 **Atomic broadcast in asynchronous crash-recovery distributed syste**
Rodrigues, L.; Raynal, M.;
Distributed Computing Systems, 2000. Proceedings. 20th International Confe on , 10-13 April 2000
Pages:288 - 295

[Abstract] [PDF Full-Text (112 KB)] **IEEE CNF**

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2 **Atomic broadcast in asynchronous crash-recovery distributed syste and its use in quorum-based replication**
Rodrigues, L.; Raynal, M.;
Knowledge and Data Engineering, IEEE Transactions on , Volume: 15 , Issue: 5 , Sept.-Oct. 2003
Pages:1206 - 1217

[Abstract] [PDF Full-Text (1842 KB)] **IEEE JNL**

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3 **Probabilistic atomic broadcast**
Felber, P.; Pedone, F.;
Reliable Distributed Systems, 2002. Proceedings. 21st IEEE Symposium on , Oct. 2002
Pages:170 - 179

[Abstract] [PDF Full-Text (590 KB)] **IEEE CNF**

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4 **Consensus-based fault-tolerant total order multicast**
Fritzke, U., Jr; Ingels, P.; Mostefaoui, A.; Raynal, M.;
Parallel and Distributed Systems, IEEE Transactions on , Volume: 12 , Issue: 2 , Feb. 2001
Pages:147 - 156

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